

operating the system in a first mode, the first mode comprising a predetermined configuration of valves, dampers, motors, and pumps; and

automatically switching the system to a second mode without going to a standby mode, the second mode comprising a predetermined configuration of valves, dampers, motors, and pumps different than the first mode.

27. A method in accordance with Claim 26 wherein switching the system to a second mode comprises switching the system to a second mode without going to a standby mode, at least one of the first mode and the second mode comprises at least one of a residual heat removal mode, a reactor core isolation cooling mode, and a high pressure core flood mode.

28. A method in accordance with Claim 26 further comprising manually changing the system while operating in the first mode.

29. A method in accordance with Claim 26 further comprising verifying a plurality of second mode permissives prior to switching the system to the second mode.

30. A method in accordance with Claim 26 wherein switching the system to a second mode without going to a standby mode comprises switching the system to a second mode using a fail safe initiation logic program.

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#### REMARKS

Subsequent to entry of this amendment, Claims 1-19 and 26-30 are pending in this application. Claims 1-6 are rejected. Claims 7-25 are withdrawn from consideration. Claims 20-25 have been cancelled. Claims 26-30 are newly added. Applicant submits that this Amendment adds no new matter.

Applicant respectfully traverses the restriction requirement regarding Claims 20-25. Claims 20-25 have been cancelled. Accordingly, Applicant respectfully requests that the restriction requirement be withdrawn.

The rejection of Claims 1-6 under 35 U.S.C. § 102(b) as being anticipated by Hench et al. (U.S. Pat. No. 4,421,716) is respectfully traversed.